


Engineer: Chris Samios	Date: 3/11/04	 JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Bruce Page	Date: 3/11/04				
Approved: Jack Curtis	Date: 3/11/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 12/16/04	Size: A	Dwg. #: 5961-271154-APP	Rev: A1	Sheet: 1 Of 1

APPLIES TO: ICOM IC-706 MKIIG Mobile

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING:

1. Mobile radios should normally be programmed for low transmit power.

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow “SIGNAL” indicator on the associated DSP Module flashes with receive audio. Should be about in the mid-range (12 o’clock) position.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291154	(5961-271154 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281154	(5961-271154 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271154	
RF Connector Type		

DSP PROGRAMMING:

RX Level	3*	0dBm
TX Level	6*	0dBm*
Squelch Type	COR	(See NOTES)
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

(* Indicates Default Value)

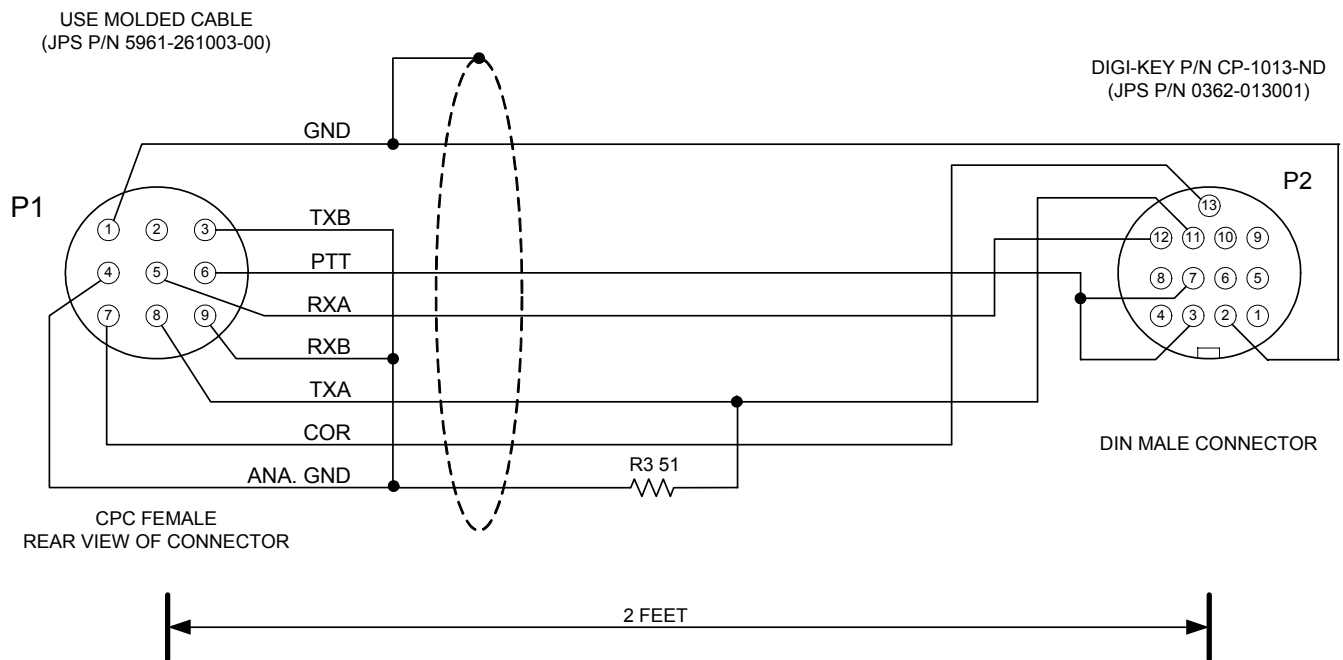
NOTES:

Note regarding active-low squelch type & this radio model:

Be sure to remove the radio from any active cross-connections prior to powering down the radio. This radio will output an active low squelch output while powered down, thereby keying any other radios that it is cross-connected to.

PURCHASED PART

Rev	ECO	Date
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COMPONENT PCB (JPS P/N 5961-271000)	
R3	JPS P/N 1820-510000
JU1	
JU2	
JU4	
JU5	
JU6	

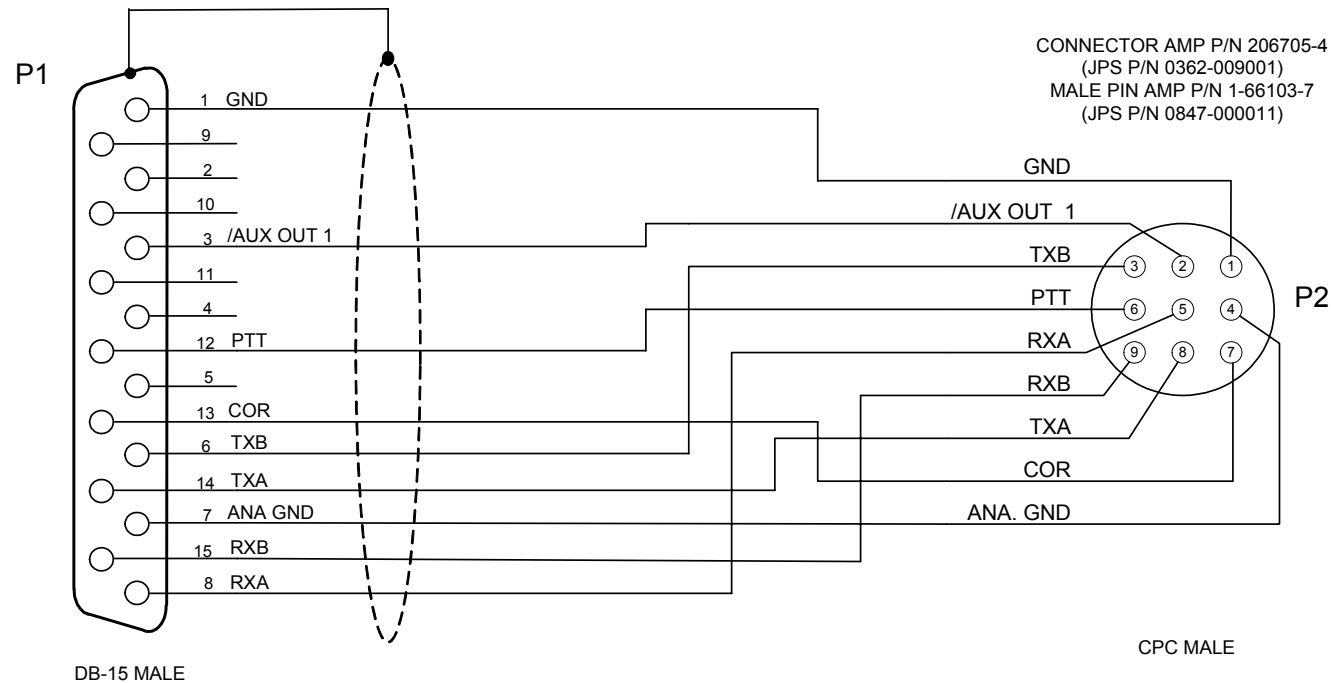
NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

USED WITH:
ICOM IC-706MKIIG MOBILE

Designed By:	CTS	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	EDV	Title CABLE, CPC TO ICOM IC-706MKIIG		
Checked By:	JAC	Size A	Document Number 5961-271154	Rev A
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PURCHASED PART

Rev	ECO	Date
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- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

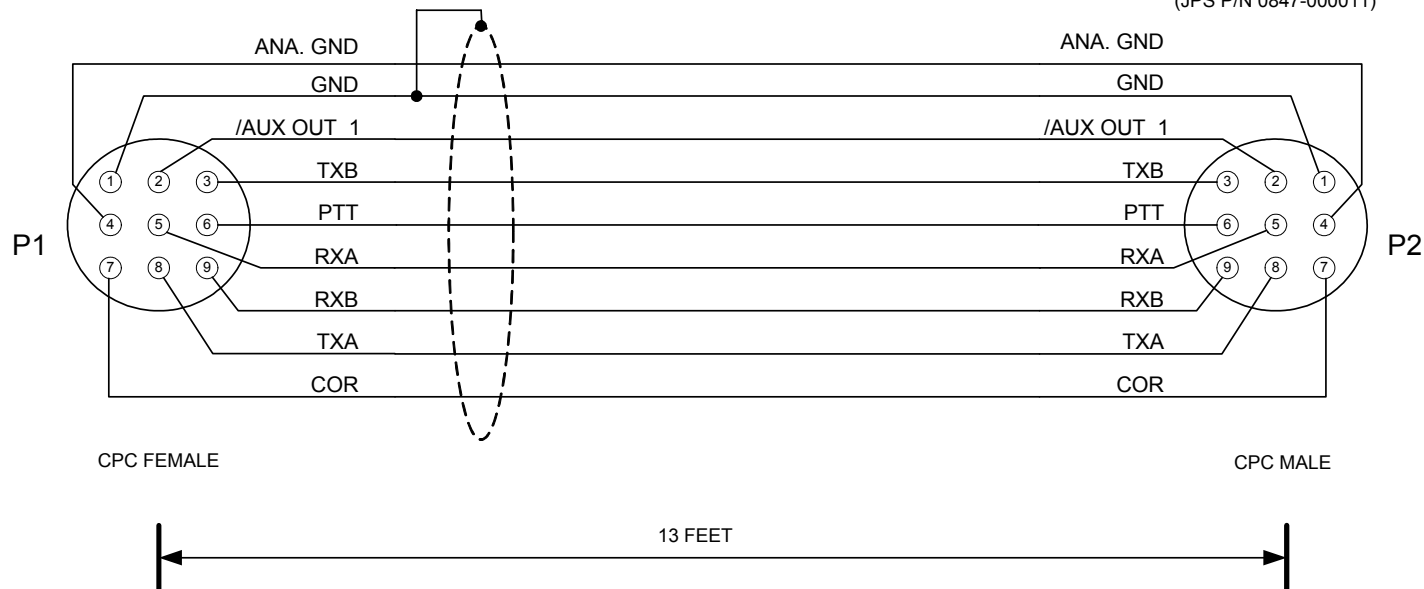
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
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PURCHASED PART

CONNECTOR AMP P/N 206708-1
(JPS P/N 0362-005003)
FEMALE PIN AMP P/N 1-66105-8
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4
(JPS P/N 0362-009001)
MALE PIN AMP P/N 1-66103-7
(JPS P/N 0847-000011)



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By: JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By: JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-281013-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	